

**Form PTO-1449** (modified)

List of Patents and Publications for Applicant's

Atty. Docket No.

TAMK:189/HIB

Serial No.

09/010,317

**INFORMATION DISCLOSURE STATEMENT**

(Use several sheets if necessary)

Applicants

Magnus Höök, Joseph M. Patti, Karen L. House-Pompeo, Pietro Speziale, Danny Joh and Martin J. McGavin

Filing Date:

January 21, 1998

Group:

1643

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**U.S. Patent Documents**

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.

**Foreign Patent Documents**

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
l2	B13	WO 96/04380	02-15-96	PCT			
l2	B14	WO 96/04381	02-15-96	PCT			

**Other Art (Including Author, Title, Date Pertinent Pages, Etc.)**

Exam. Init.	Ref. Des.	Citation
l2	C42	International Search Report dated November 11, 1998 (PCT/US98/01222) (Atty. Dkt. No. TAMK:189P--).
l2	C43	Molinari <i>et al.</i> , "The fibronectin-binding protein of <i>Streptococcus pyogenes</i> , SfbI, is involved in the internalization of group A streptococci by epithelial cells," <i>Infect. and Immun.</i> 65:1357-1363, 1997.

Examiner:

*Robert Ziem*

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Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
R2	A1	4,784,989	11/15/88	Höök <i>et al.</i>	514	21	09/13/83
	A2	4,980,279	12/25/90	Peters <i>et al.</i>	435	7	04/15/86
	A3	5,175,096	12/29/92	Höök <i>et al.</i>	435	69.1	05/09/90
	A4	5,189,015	02/23/93	Höök <i>et al.</i>	514	2	12/05/91
	A5	5,320,951	06/14/94	Höök <i>et al.</i>	435	69.1	01/22/93
	A6	5,416,021	05/16/95	Höök <i>et al.</i>	435	252.33	09/23/93
	A7	5,440,014	08/08/95	Höök <i>et al.</i>	530	326	04/28/94
	A8	5,453,489	09/26/95	Ruoslahti <i>et al.</i>	530	350	01/31/92
	A9	5,571,514	11/05/96	Höök <i>et al.</i>	424	190.1	06/13/94
	A10	5,770,702	06/23/98	Höök <i>et al.</i>	530	388.25	10/07/96

**Foreign Patent Documents**

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R2	B1	WO 97/48727	12/24/97	PCT			
	B2	WO 97/45544	12/04/97	PCT			
	B3	WO 94/10330	05/11/94	PCT			
	B4	WO 94/18327	08/18/94	PCT			
	B5	WO 92/02555	02/20/92	PCT			
	B6	EP 0294349 A2	12/07/88	Europe			
	B7	EP 0294349 A3	12/07/88	Europe			
	B8	EP 0294349 B1	12/07/88	Europe			

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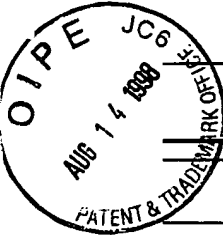
*Robert Zeman*

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R2	B9	EP 0397633	11/14/90	Europe			
	B10	EP 0163623	12/04/85	Europe			
	B11	EP 0342173 A2	11/15/89	Europe			
4	B12	EP 0342173 A3	11/15/89	Europe			

**Other Art (Including Author, Title, Date Pertinent Pages, Etc.)**

Exam. Init.	Ref. Des.	Citation
R2	C1	Bozzini <i>et al.</i> , "Multiple binding sites in fibronectin and the staphylococcal fibronectin receptor," <i>Eur. J. Biochem.</i> , 207:327-333, 1992.
	C2	Ciborowski <i>et al.</i> , "Immunological response to a <i>Staphylococcus aureus</i> fibronectin-binding protein," <i>J. Med. Microbiol.</i> , 37:376-381, 1992.
	C3	Flock <i>et al.</i> , "Cloning and expression of the gene for a fibronectin-binding protein from <i>Staphylococcus aureus</i> ," <i>EMBO J.</i> , 6:2351-2357, 1987.
	C4	Fröman <i>et al.</i> , "Isolation and characterization of a fibronectin receptor from <i>Staphylococcus aureus</i> ," <i>J. Biol. Chem.</i> , 262:6564-6571, 1987.
	C5	Greene <i>et al.</i> , "Adhesion properties of mutants of <i>Staphylococcus aureus</i> defective in fibronectin-binding proteins and studies on the expression of <i>fmb</i> genes," <i>Mol. Microbiol.</i> 17:1143-1152, 1995.
	C6	Hanski and Caparon, "Protein F, a fibronectin binding protein, is an adhesin of the group A streptococcus <i>Streptococcus pyogenes</i> ," <i>Proc. Natl. Acad. Sci.</i> , 89:6172-6176, 1992.
	C7	Hanski <i>et al.</i> , "Expression of protein F, the fibronectin-binding protein of <i>Streptococcus pyogenes</i> JRS4, in heterologous streptococcal and enterococcal strains promotes their adherence to respiratory epithelial cells," <i>Infect. Immun.</i> , 60(12):5119-5125, 1992.
4	C8	Homonylo-McGavin <i>et al.</i> , "Identification of a <i>Staphylococcus aureus</i> extracellular matrix-binding protein with broad specificity," <i>Infect. and Immun.</i> , 61:2479-2485, 1993.

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22	C9	House-Pompeo <i>et al.</i> , "Conformational changes in the fibronectin binding MSCRAMMs are induced by ligand binding," <i>J. Biol. Chem.</i> 271:1379-1384, 1996.					
	C10	Huff <i>et al.</i> , "Interaction of N-terminal fragments of fibronectin with synthetic and recombinant D-motifs from its binding protein on <i>Staphylococcus aureus</i> studied using fluorescence anisotropy," <i>J. Biol. Chem.</i> 269:15563-15570, 1994.					
	C11	Joh <i>et al.</i> , "Fibronectin receptors from gram-positive bacteria: Comparison of Active Sites," <i>Biochemistry</i> , 33:6086-6092, 1994.					
	C12	Jönsson <i>et al.</i> , "Two different genes encode fibronectin binding proteins in <i>Staphylococcus aureus</i> : the complete nucleotide sequence and characterization of the second gene," <i>Eur. J. Biochem.</i> 202:1014-1048, 1991.					
	C13	Kline <i>et al.</i> , "Identification of a fibronectin-binding protein GfbA in pathogenic group G streptococci," <i>Infect. Immun.</i> 64:2122-2129, 1996.					
	C14	Kreikemeyer <i>et al.</i> , "Characterization of a novel fibronectin-binding surface protein in group A streptococci," <i>Molec. Microbiol.</i> , 17:137-145, 1995.					
	C15	Kuypers and Proctor, "Reduced adherence to traumatized rat heart valves by a low-fibronectin binding mutant of <i>Staphylococcus aureus</i> ," <i>Infect. Immun.</i> 57:2306-2312, 1989.					
	C16	Lindgren <i>et al.</i> , "A fibronectin-binding protein from <i>Streptococcus equisimilis</i> : characterization of the gene and identification of the binding domain," <i>Veterinary Microbiology</i> , 41:235-247, 1994.					
	C17	Lindgren <i>et al.</i> , "Cloning and expression of two different genes from <i>Streptococcus dysgalactiae</i> encoding fibronectin receptors," <i>J. Biol. Chem.</i> , 267:1924-1931, 1992.					
	C18	Lindgren <i>et al.</i> , "Two different genes coding for fibronectin-binding proteins from <i>Streptococcus dysgalactiae</i> - the complete nucleotide sequences and characterization of the binding domains," <i>Eur. J. Biochem.</i> , 214:819-827, 1993.					
4	C19	McGavin <i>et al.</i> , "Fibronectin binding determinants of the <i>Staphylococcus aureus</i> fibronectin receptor," <i>J. Biol. Chem.</i> 266:8343-8347, 1991.					

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12	C20	McGavin <i>et al.</i> , "Fibronectin receptors from <i>Streptococcus dysgalactiae</i> and <i>Staphylococcus aureus</i> : Involvement of conserved residues in ligand binding," <i>J. Biol. Chem.</i> 268:23946-23953, 1993.					
	C21	Minhas <i>et al.</i> , "Detection by PCR and analysis of the distribution of a fibronectin-binding protein gene ( <i>fbn</i> ) among staphylococcal isolates," <i>Bacterial Pathogenicity</i> , 42:96-101, 1995.					
	C22	Murphy <i>et al.</i> , "Heparin-binding peptides from thrombospondins 1 and 2 contain focal adhesion-labilizing activity," <i>J. Biol. Chem.</i> , 268(35):26784-26789, 1993.					
	C23	Okada <i>et al.</i> , "M protein and protein F act as important determinants of cell-specific tropism of <i>Streptococcus pyogenes</i> in skin tissue," <i>J. Clin. Invest.</i> , 94:965-977, 1994.					
	C24	Ozeri <i>et al.</i> , "A two-domain mechanism for group A streptococcal adherence through protein F to the extracellular matrix," <i>EMBO J.</i> 15:989-998, 1996.					
	C25	Patti and Höök, "Microbial adhesins recognizing extracellular matrix macromolecules," <i>Curr. Opin. Cell Biol.</i> 6:752-758, 1994.					
	C26	Patti <i>et al.</i> , "MSCRAMM mediated adherence of microorganisms to host tissues," <i>Annu. Rev. Microbiol.</i> 48:585-617, 1994.					
	C27	Potts and Campbell, "Fibronectin structure and assembly," <i>Curr. Opin. Cell Biol.</i> , 6(5):648-655, 1994.					
	C28	Raja, <i>et al.</i> , "Peptide analogs to a fibronectin receptor inhibit attachment of <i>Staphylococcus aureus</i> to fibronectin-containing substrates," <i>Infection and Immunity</i> , 58(8):2593-2598, 1990.					
	C29	Rakonjac <i>et al.</i> , "DNA sequence of the serum opacity factor of group A <i>Streptococci</i> : identification of a fibronectin-binding repeat domain," <i>Infection and Immunity</i> , 63(2):622-631, 1995.					
	C30	Rozalska <i>et al.</i> , " <i>Staphylococcus aureus</i> fibronectin-binding proteins FnBPs: Identification of antigenic epitopes using polyclonal antibodies," <i>APMIS</i> 102:112-118, 1994.					
	C31	Rozalska and Wadström, "Protective opsonic activity of antibodies against fibronectin-binding proteins (FnBPs) of <i>Staphylococcus aureus</i> ," <i>Scand. J. Immunol.</i> , 37:575-580, 1993.					
	C32	Sela <i>et al.</i> , "Protein F; An adhesin of <i>Streptococcus pyogenes</i> binds to fibronectin via two distinct domains," <i>Molec. Microbiol.</i> , 10:1049-1055, 1993.					

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22	C33	Signäs <i>et al.</i> , "Nucleotide sequence of the gene for a fibronectin binding protein from <i>Staphylococcus aureus</i> : Use of this peptide sequence in the synthesis of biologically active peptides," <i>Proc. Natl. Acad. Sci. USA.</i> 86:699-703, 1989.					
	C34	Speziale <i>et al.</i> , "Fibronectin binding to a <i>Streptococcus pyogenes</i> strain," <i>J. Bact.</i> , 157:420-427, 1984.					
	C35	Speziale <i>et al.</i> , "A monoclonal antibody enhances ligand binding of fibronectin MSCRAMM (adhesin) from <i>S. dysgalactiae</i> ," <i>J. Biol. Chem.</i> 271:1371-1378, 1996.					
	C36	Strong <i>et al.</i> , "Isolation, characterization and synthesis of peptides from human fibrinogen that block the staphylococcal clumping reaction and construction of a synthetic clumping particle," <i>Biochemistry</i> , 21:1414-1420, 1982.					
	C37	Sun <i>et al.</i> , "Identification of D motif epitopes in <i>Staphylococcus aureus</i> fibronectin-binding protein for the production of antibody inhibitors of fibronectin binding," <i>Infection and Immunity</i> , 65(2):, 1997.					
	C38	Talay <i>et al.</i> , "Fibronectin-binding protein of <i>Streptococcus pyogenes</i> : Sequence of the binding domain involved in adherence of streptococci to epithelial cells," <i>Infect. Immun.</i> , 60:3837-3844, 1992.					
	C39	Talay <i>et al.</i> , "Domain structure and conserved epitopes of Sfb protein, the fibronectin-binding adhesin of <i>Streptococcus pyogenes</i> ," <i>Mol. Microbiol.</i> , 13(3):531-539, 1994.					
	C40	Valentin-Weigand <i>et al.</i> , "The fibronectin binding domain of the Sfb protein adhesin of <i>Streptococcus pyogenes</i> occurs in many group A streptococci and does not cross-react with heart myosin," <i>Microbial Pathogenesis</i> , 17:111-120, 1994.					
	C41	Vaudaux <i>et al.</i> , "Fibronectin is more active than fibrin or fibrinogen in promoting <i>Staphylococcus aureus</i> adherence to inserted intravascular catheters," <i>J. Infect. Dis.</i> 160:865-875, 1993.					

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